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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1.   (Currently Amended) A method of selectively adjusting chromaticity of colors displayed by a color display, the method comprising adjusting an intensity value of a first primary color component of a pixel based, at least in part, on an intensity value of a second primary color component of said pixel, wherein said adjusting comprises calculating an adjusted intensity value for said first primary color component using a conversion operator to correct a chromaticity of said second primary color component of the pixel, said conversion operator dependent on one or more of the intensity values of at least one of the first and second primary color components.

2.   (Original) The method of claim 1, wherein said pixel comprises three or more primary color components.

3.   (Previously Presented) The method of claim 1, wherein said pixel comprises three primary color components, and wherein said adjusting comprises adjusting the intensity value of said primary color component based on intensity values of all said three primary color components.

4.   (Original) The method of claim 2, wherein said three or more primary color components comprise four or more primary color components.

5.   (Original) The method of claim 4, wherein said adjusting comprises adjusting the intensity value of said first primary color component based on intensity values of one or more of said four or more primary color components.

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6.   **(Previously Presented)** A method according to claim 1 comprising performing said adjusting for a plurality of pixels of a color image to be displayed by said color display.

7.   **(Canceled)**

8.   **(Previously Presented)** The method of claim 1, wherein said conversion operator comprises a conversion inverse matrix to convert the intensity values of said primary color components in an absolute data format into corresponding values in a device-dependent data format.

9.   **(Original)** The method of claim 8, wherein one or more elements of said conversion inverse matrix are dependent on one or more of the intensity values of said primary color components.

10.   **(Original)** The method of claim 8, wherein said conversion inverse matrix corresponds to an inverse of a direct conversion matrix.

11.   **(Original)** The method of claim 10, wherein said direct conversion matrix comprises elements dependent on the intensity values of said primary color components.

12.   **(Previously Presented)** The method of claim 1, wherein said adjusting comprising:
       determining an initial conversion operator; and
       converting the intensity values of said primary color components into initial converted intensity values using said initial conversion operator.

13.   **(Original)** The method of claim 12, wherein determining said initial conversion operator comprises selecting one or more initial intensity values.

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14.   (Original) The method of claim 13 wherein said initial intensity values are selected according to intensity values of primary color components of a neighbor pixel adjacent to said pixel.

15.   (Previously Presented) The method of claim 12 comprising:
           adjusting said conversion operator based on said converted values to provide an adjusted conversion operator; and
           converting the intensity values of said primary components using said adjusted conversion to provide adjusted converted intensity values.

16.   (Original) The method of claim 15, wherein adjusting said conversion operator comprises:
           calculating elements of an adjusted direct conversion matrix based on said converted values; and
           constructing an inverse matrix by inverting said adjusted direct conversion matrix.

17.   (Original) The method of claim 16 wherein said calculating comprises:
           using one or more look up tables to associate each of said converted values with a set of device dependent XYZ values; and
           constructing said adjusted direct conversion matrix using said XYZ values.

18.   (Previously Presented) The method of claim 15 comprising comparing between said initial converted intensity values and said adjusted converted intensity values.

19.   (Original) The method of claim 18 comprising re-initializing said conversion operator according to said adjusted conversion operator.

20.   (Original) The method of claim 19, wherein re-initializing said conversion operator comprises substituting elements of said initial conversion operator with respective values of said adjusted conversion operator.

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21.   **(Previously Presented)** The method of claim 19 comprising repeating said adjusting, said converting based on said adjusted conversion operator, and said re-initializing, until a pre-determined difference between said initial converted intensity values and said adjusted converted intensity values is achieved.

22.   **(Previously Presented)** The method of claim 1 wherein said adjusting comprises:
    obtaining one or more device-dependent intensity values corresponding to one or more imaginary intensity values of said primary color components; and
    combining one or more of said device dependent intensity values.

23.   **(Original)** The method of claim 22, wherein said imaginary intensity values comprise the intensity values of said primary color components.

24.   **(Original)** The method of claim 22 comprising obtaining said imaginary intensity values by applying a predefined conversion operator to input intensity values of said primary color components.

25.   **(Previously Presented)** The method of claim 22, wherein obtaining one or more device-dependent values comprises using one or more look up tables to associate each of said one or more imaginary intensity values with a respective plurality of said device-dependent values.

26.   **(Previously Presented)** The method of claim 22, wherein each of said device dependent values correspond to one of said primary color components.

27.   **(Original)** The method of claim 26, wherein said combining comprises combining said device-dependent values based on said primary color components.

28.   **(Original)** The method of claim 27 wherein said combining comprises calculating a sum of the device dependent values corresponding to each of said primary color components.

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29.   **(Previously Presented)** The method of claim 1 comprising:
      adding a sub-adjustment value to a first imaginary intensity value based on a
      second imaginary intensity value, said first and second imaginary intensity values
      corresponding to said first and second primary color components, respectively.

30.   **(Original)** The method of claim 29, wherein said imaginary intensity values comprise
      the intensity values of said primary color components.

31.   **(Original)** The method of claim 29 comprising obtaining said imaginary intensity
      values by applying a predefined conversion operator to input intensity values of said
      primary color components.

32.   **(Currently Amended)** A display system comprising:
      a color adjustment unit to selectively adjust an intensity value of a first primary
      color component of a pixel based, at least in part, on an intensity value of a second
      primary color component of said pixel and on a conversion operator to correct a
      chromaticity of said second primary color component of the pixel, said conversion
      operator dependent on one or more of the intensity values of at least one of the
      first and second primary color components.

33.   **(Original)** The system of claim 32 comprising a driver to receive said adjusted
      intensity value from said color adjustment unit and to drive a color display device
      according to said adjusted intensity value.

34.   **(Previously Presented)** The system of claim 32, wherein said color adjustment unit
      comprises a logic unit to obtain one or more device-dependent intensity values
      corresponding to one or more imaginary intensity values of said primary color
      components, and to combine one or more of said device dependent intensity values.

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35.   **(Original)** The system of claim 34, wherein said imaginary intensity values comprise the intensity values of said primary color components.

36.   **(Original)** The system of claim 34, wherein said logic unit is adapted to obtain said imaginary intensity values by applying a predefined conversion operator to input intensity values of said primary color components.

37.   **(Previously Presented)** The system of claim 34, wherein said logic unit comprises one or more memory units to store one or more look up tables to associate each of said one or more imaginary intensity values with a respective plurality of said device-dependent values.

38.   **(Previously Presented)** The system of claim 32, wherein said color adjustment unit comprises a logic unit to add a sub-adjustment value to a first imaginary intensity value based on a second imaginary intensity value, said first and second imaginary intensity values corresponding to said first and second primary color components, respectively.

39.   **(Original)** The system of claim 38, wherein said imaginary intensity values comprise the intensity values of said primary color components.

40.   **(Original)** The system of claim 38, wherein said logic unit is adapted to apply a predefined conversion operator to input intensity values of said primary color components to obtain said imaginary intensity values.

41.   **(Previously Presented)** The system of claim 38, wherein said logic unit comprises a first memory unit to store a first look up table to associate said sub-adjustment value with said second imaginary intensity value.